AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of the claims in the application:

Claim 1. (Previously Presented) A gait detection system comprising:

a microphone for picking up vibrations generated by a pedestrian while walking and for converting the vibrations into electrical signals;

analysis means for analyzing variations corresponding to a frequency less than or equal to a predetermined frequency of the electrical signals converted by the microphone, for detecting a gait of the pedestrian, and for generating information on the detected gait; and

output means for outputting the information on the detected gait.

Claim 2. (Previously Presented) The gait detection system according to Claim 1, wherein the analysis means determines a pattern of the gait of the pedestrian based on at least one of a duration and a frequency intensity of a signal in a frequency band less than or equal to 100 Hz.

Claim 3. (Currently Amended) The gait detection system according to Claim 1, wherein the analysis means estimates a stride length of the pedestrian based on a gait cycle detected by the analysis means and a ~~stored~~ pre-input height of the pedestrian.

Claim 4. (Previously Presented) The gait detection system according to Claim 3, wherein the analysis means estimates a distance traveled by the pedestrian based on the stride length and a number of steps detected by the analysis means.

Claim 5. (Previously Presented) A gait detection apparatus comprising:

analysis means for analyzing a frequency component of a signal based on a vibration transmitted through the body of a pedestrian while walking and for detecting a gait of the pedestrian; and

output means for outputting information on the gait detected by the analysis means.

Claim 6. (Previously Presented) The gait detection apparatus according to Claim 5, further comprising a filter for passing only a signal in a predetermined frequency band,

wherein the analysis means detects the gait of the pedestrian based on a presence or absence of the signal having passed through the filter.

Claim 7. (Previously Presented) The gait detection apparatus according to Claim 5, further comprising data storage means for storing signal data corresponding to a gait model pattern,

wherein the analysis means analyzes a signal by comparing the signal with the signal data stored in the data storage means and by determining whether a pattern of the signal detected by the analysis means matches the signal data.

Claim 8. (Canceled)

Claim 9. (Previously Presented) A device to be mounted on a user, comprising:

a microphone for picking up ambient sounds and for converting the ambient sounds into electrical signals:

analysis means for analyzing variations in signals corresponding to a frequency less than or equal to a predetermined frequency based on the electrical signals converted by the microphone and for detecting a gait of the user; and

display means for outputting information concerning the gait detected by the analysis means using characters.

Claim 10. (Previously Presented) The device according to Claim 9, wherein the analysis means detects a number of steps walked by the user.

Claim 11. (Currently Amended) A gait detection method comprising the steps of:

detecting components in a frequency band less than or equal to 100 Hz from vibrations transmitted through the body of a pedestrian while walking; and

converting the detected components into signals and

analyzing the signals, ~~whereby~~ wherein a gait of the pedestrian is detected.